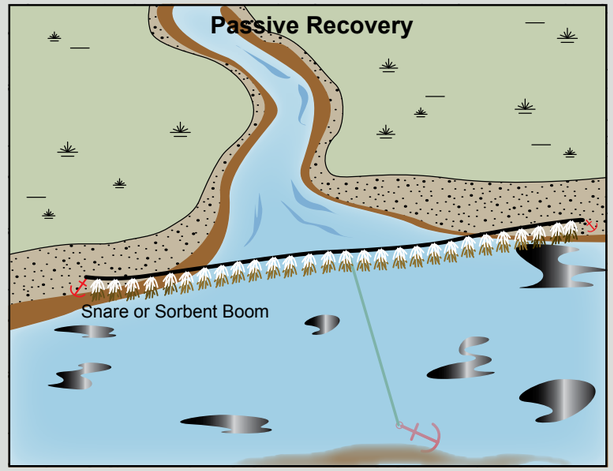
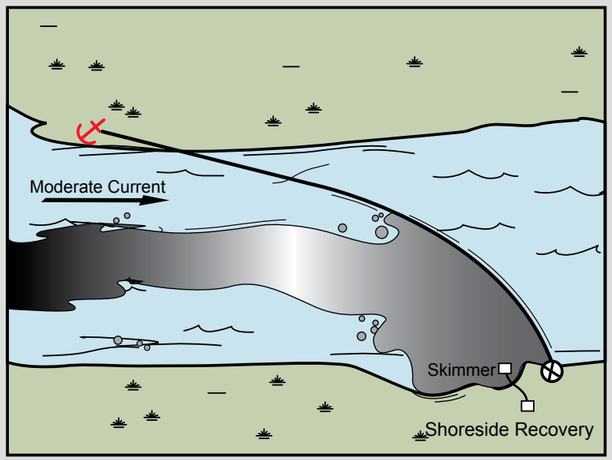
Ipek Lagoon, NWA-S04

Center of map at 65° 54'25" N Lat., 167° 7'3" W Lon.



An example of the ***Passive Recovery Tactic***. Actual deployment should be adjusted for local conditions.



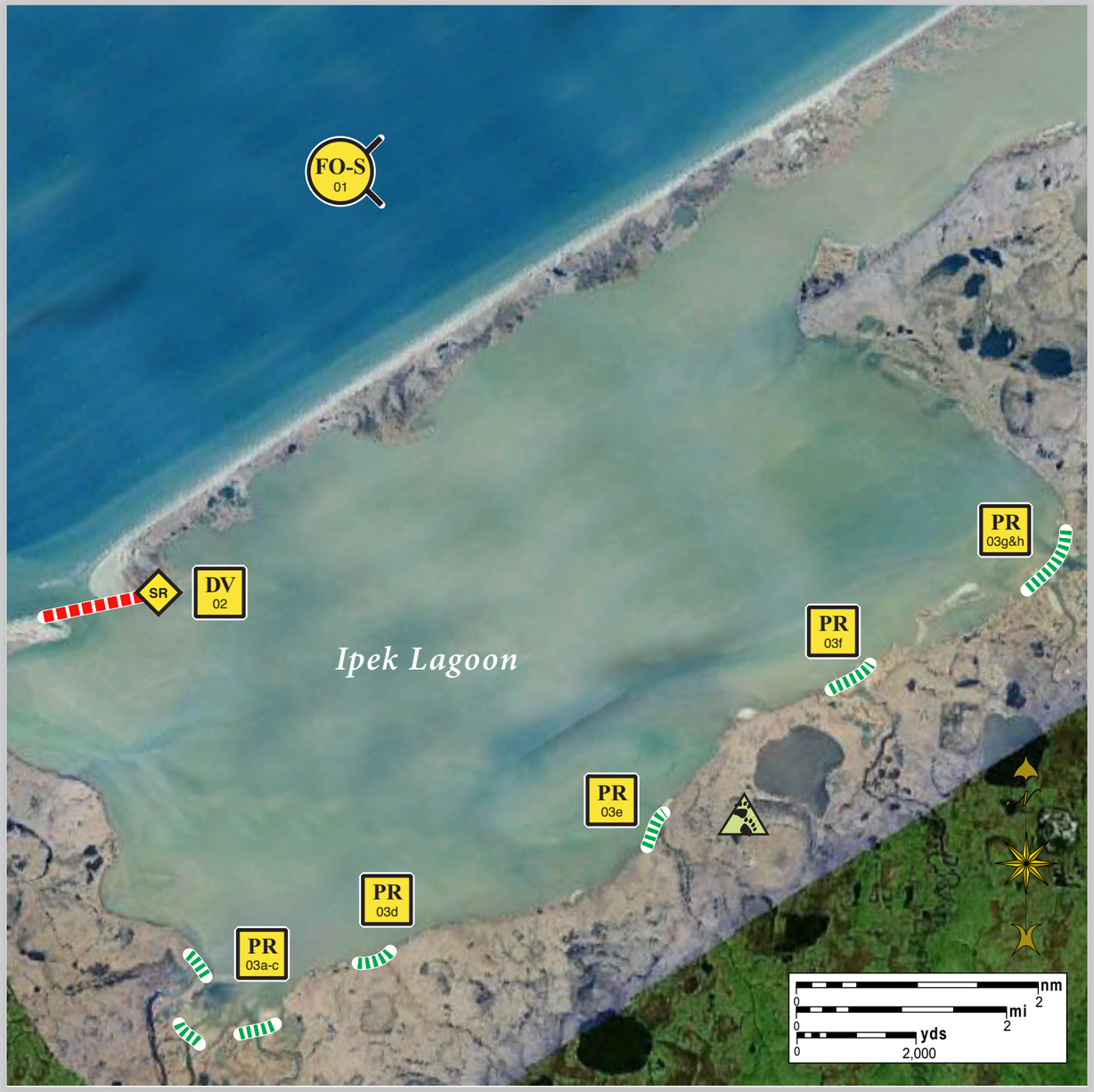
An example of the ***Diversion Booming Tactic***. Actual deployment should be adjusted for local conditions.

Map Legend

- FO-S — Free-oil Recovery
- PR — Passive Recovery
- DV — Exclusion Booming
- SR — Shoreside Recovery
- Protected-water Boom
- Snare or Sorbent Boom
- Bears in Area, Guards Recommended

Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Northwest Arctic Subarea, Southern Zone



This is not intended for navigational use.

DRAFT This tactic map is a working draft being used to develop a Geographic Response Strategy at this location. The tactics represented here have not been approved by the Subarea Committee and should not be considered final. If you have questions or comments please contact us by email at contact@nukaresearch.com.

NUKA Research & Planning Group, LLC.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
S-04-01 FO-S	**Ipek Lagoon** Nearshore waters in the general area of: Lat. 65° 57.12 N Lon. 167°19.69 W	**Free-oil Recovery** Maximize free-oil recovery in the offshore & nearshore environment of Ipek Lagoon depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of Ipek Lagoon. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Shishmaref/ Wales	Via marine waters Chart 16005	Same as S-04-02	Vessel master should have local knowledge. Use extreme caution, shoal waters with numerous reefs and rocks.
S-04-02 DV	**Ipek Lagoon** Lat. 65° 54.11 N Lon. 167°14.39 W	**Divert and Collect** Divert oil to shore-side collection points determined by spill source and trajectory. Barrier beach may have breached in different locations. Aerial survey recommended prior to deployment. Adjust equipment requirements to reflect additional breaches.	Deploy anchors and boom with skiffs (class 6). Place protected-water boom at proper angle to divert incoming oil to the collection site. Set-up collection site using shore-side collection units or if oil volume is minimal, use sorbent boom or snare line to provide collection of oil. Tend throughout the tide	**Deployment** **Equipment** 5300 ft. protected-water boom 26 ea. anchor systems 8 ea. anchor stakes 1 ea. shore-side collection **Vessels** 1 ea. class 3 2 ea. class 6 1 ea. helicopter (if needed for S-04-03) **Personnel/Shift** 7 ea. vessel crew 2 ea. response techs **Tending** **Vessels** 1 ea. class 3 1 ea. class 6 **Personnel/Shift** 3 ea. vessel crew 1 ea. response tech	Vessel platform	Via marine waters Chart 16005	Fish- herring spawning, dolly varden, char, white fish, saffron cod, pink salmon Birds-waterfowl concentration, shorebird concentration, seabird concentration Marine mammals- seals, polar bear Habitat- marsh, low lying tundra, exposed rocky shore, gravel beaches	Vessel master should have local knowledge. FOSC Historic Properties Specialist should MONITOR on-site operations. Take appropriate measures as outlined in the STAR Manual to protect the beach at the collection site. Site surveyed: not surveyed Tested: not yet
S-04-03 PR	**Ipek Lagoon** a. Lat. 65° 51.04 N Lon. 167°11.18 W b. Lat. 65° 50.44 N Lon. 167°11.13 W c. Lat. 65° 50.50 N Lon. 167°09.53 W d. Lat. 65° 51.36 N Lon. 167° 6.93 W e. Lat. 65° 52.68 N Lon. 167° 0.95 W f. Lat. 65° 54.23 N Lon. 166°56.87 W g. Lat. 65° 55.36 N Lon. 166°52.75 W h. Lat. 65° 55.56 N Lon. 166°51.71 W	**Passive Recovery** Use local knowledge and navigation to place passive recovery across the channels of the streams in the Ipek Lagoon.	Place and anchor snare line or sorbent boom at each location across the channels of streams in Ipek Lagoon. The lagoon is very shallow. Unless local knowledge is available to navigate the lagoon, helicopter deployment should be utilized. Replace as necessary to maximize the recovery. <u>Boom Lengths:</u> a. 700 ft. b. 300 ft. c. 350 ft. d. 300 ft. e. 250 ft. f. 300 ft. g. 400 ft. h. 650 ft	**Deployment** **Equipment** 3000 ft. snare line or sorbent boom 15 ea. anchor systems 32 ea. anchor stakes **Vessels/Personnel/Shift** Same as S-04-02 **Tending** **Vessels/Personnel/Shift** Same as S-04-02	Vessel platform	Via marine waters Chart 16005	Same as S-04-02	Vessel master should have local knowledge. Title 41 permitting required from ADNR. A population of bears may be present in the area. A bear guard is required during shore operations. Threatened or endangered species/habitat is present or possible in the area. Consult with NOAA and DOI prior to deployment.

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the NWA Sub-Area Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_nwa.htm.